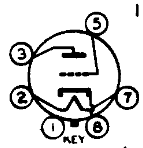
6AC5-GT ★

6AC5-GT/6AC5-G

HIGH-MU POWER AMPLIFIER TRIODE

Heater ■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.4	amp.
Maximum Overall Length		3-5/16"
Maximum Seated Height		2-3/4" ←
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermed. Shell Octal 6-Pin
Pin 1 - No Connection		Pin 5 - Grid
Pin 2 - Heater		Pin 7 - Heater
Pin 3 - Plate		Pin 8 - Cathode
Mounting Position		Any



BOTTOM VIEW (G-6Q)

Characteristics

Plate Voltage	250	max.	volts
Grid Voltage	+13		volts
Amplification Factor	125		
Plate Resistance	36700		ohms
Transconductance	3400		μmhos
Plate Current	32		ma.
Grid Current	5		ma.

Amplifier

Plate Voltage	250	max.	volts
Peak Plate Current (per tube)	110	max.	ma.
Average Plate Dissipation	10	max.	watts
Typical Operation - Class B Power Amplifier:			
Unless otherwise specified, values are for 2 tubes			
Plate Voltage	250		volts
Grid Voltage	0		volts
Peak A-F Grid-to-Grid Voltage	70		volts
Zero-Signal D-C Plate Current	5		ma.
Effective Load Res. (plate to plate)	10000		ohms
Peak Power Input	950		mw.
Power Output	8	approx.	watts
Dynamic-Coupled Class A_1 Amplifier - With Type 76 as Driver:			
Plate-Supply Voltage	250		volts
Grid Voltage	▲		volts
Average Plate Current	32		ma.
Average Plate Current of Driver	5.5		ma.
Input Signal to Driver (RMS)	16.5		volts
Driver Grid Resistor	1.0	max.	megohm
Load Resistance	7000		ohms
Harmonic Distortion	10		%
Power Output *	3.7		watts

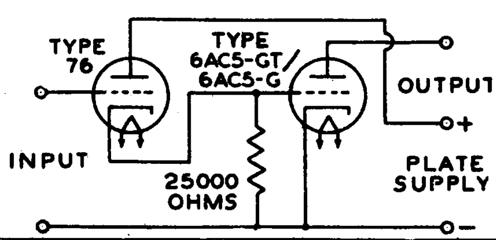
■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

▲ Bias voltage for both the 6AC5-GT/6AC5-G and the driver is developed by the Dynamic-Coupled connection shown in the circuit arrangement. The total d-c resistance in the grid circuit of the driver should not exceed 1.0 megohm. The main purpose of the 25000-ohm resistor is to prevent a current surge occurring while the tube is warming up.

* When driver is operated up to the grid-current point, it is possible to obtain a power output of 4.3 watts with approximately 16% distortion.

← Indicates a change.

DYNAMIC-COUPLED CONNECTION

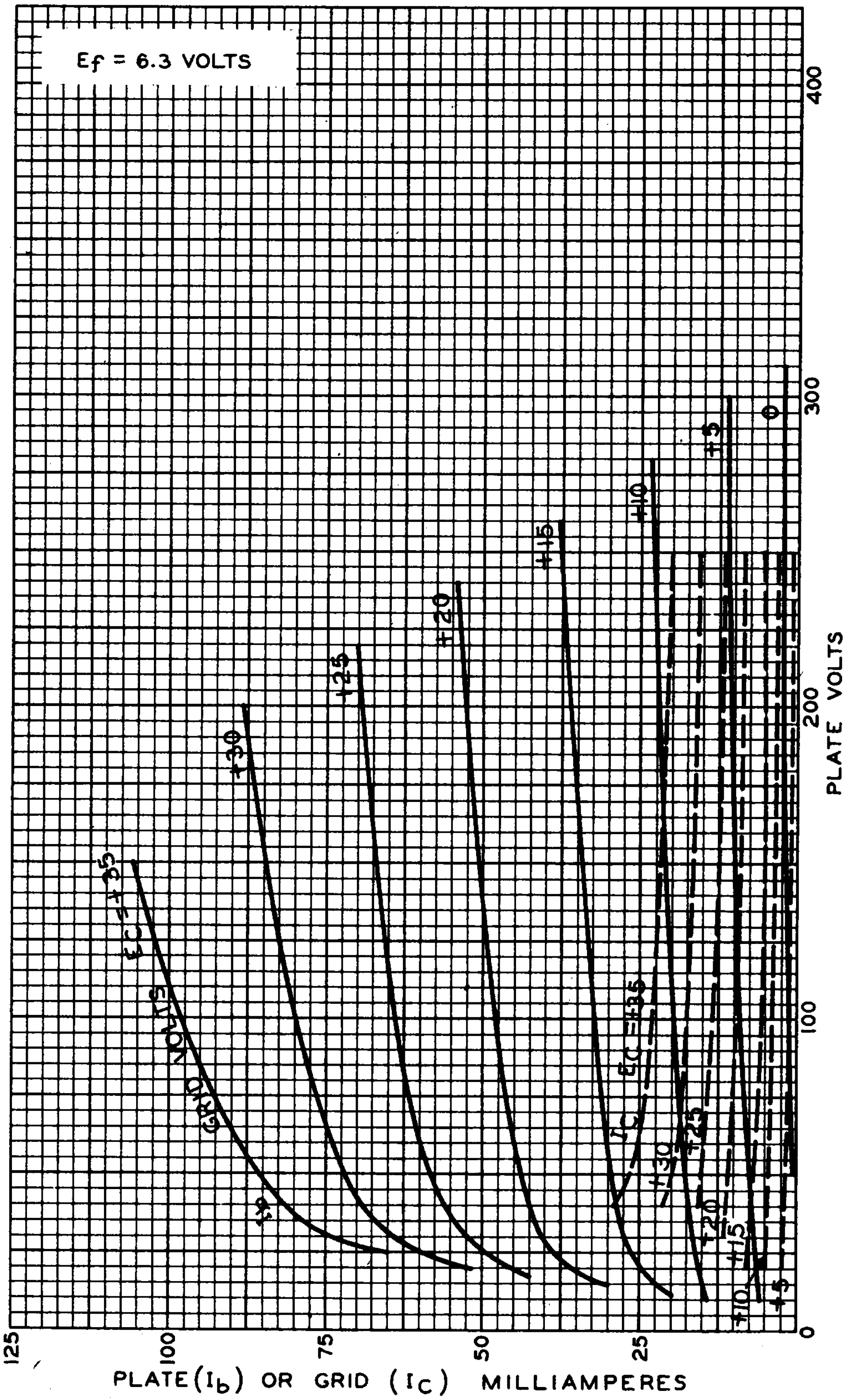


RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

6AC5-GT

6AC5-GT

AVERAGE PLATE CHARACTERISTICS



OCT. 18, 1937

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92C-4840